

***LineUp With Math™* Alignment**  
**Academic Content Standards - Mathematics**  
**Grade-Level Indicators**

**Number, Number Sense and Operations Standard**

***Computation and Estimation***

**Grade-Level Indicator**

6. Estimate, compute and solve problems involving rational numbers, including ratio, proportion and percent, and judge the reasonableness of solutions.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

**Measurement Standard**

***Use Measurement Techniques and Tools***

**Grade-Level Indicator**

6. Solve and determine the reasonableness of the results for problems involving rates and derived measurements, such as velocity and density, using formulas, models and graphs.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

--Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.

7. Apply proportional reasoning to solve problems involving indirect measurements or rates.

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

**Patterns, Functions and Algebra Standard**

***Analyze Change***

**Grade-Level Indicator**

16. Use graphing calculators or computers to analyze change; e.g., interest compounded over time as a nonlinear growth pattern.

***LineUp With Math™* Activities**

--Use an interactive simulator to identify distance, rate, time conflicts in air traffic control problems and resolve the conflicts by varying plane speeds or changing plane routes.